

ABSTRACT

A piston-cam engine includes a drive cylinder, a drive piston operably disposed
5 therein having a piston head and a shaft, a support frame having a drive shaft rotatably
movably connected thereto, a cam having a peripheral surface and having a plurality of
lobes thereon, a roller member connected to the piston shaft and adapted for engagement
with the peripheral surface of the cam, and a biasing element for biasing the roller
member continuously against the peripheral surface of the cam. A support drive plate
10 interconnects the piston shaft and the roller member and one or more slave cylinder(s) is
provided adjacent the drive cylinder and has a slave piston operably disposed therein and
has a piston head and a shaft, wherein the slave piston shaft is connected to the support
drive plate to absorb part of a force exerted on the support plate during operation of the
engine.

15